

FIG. 1

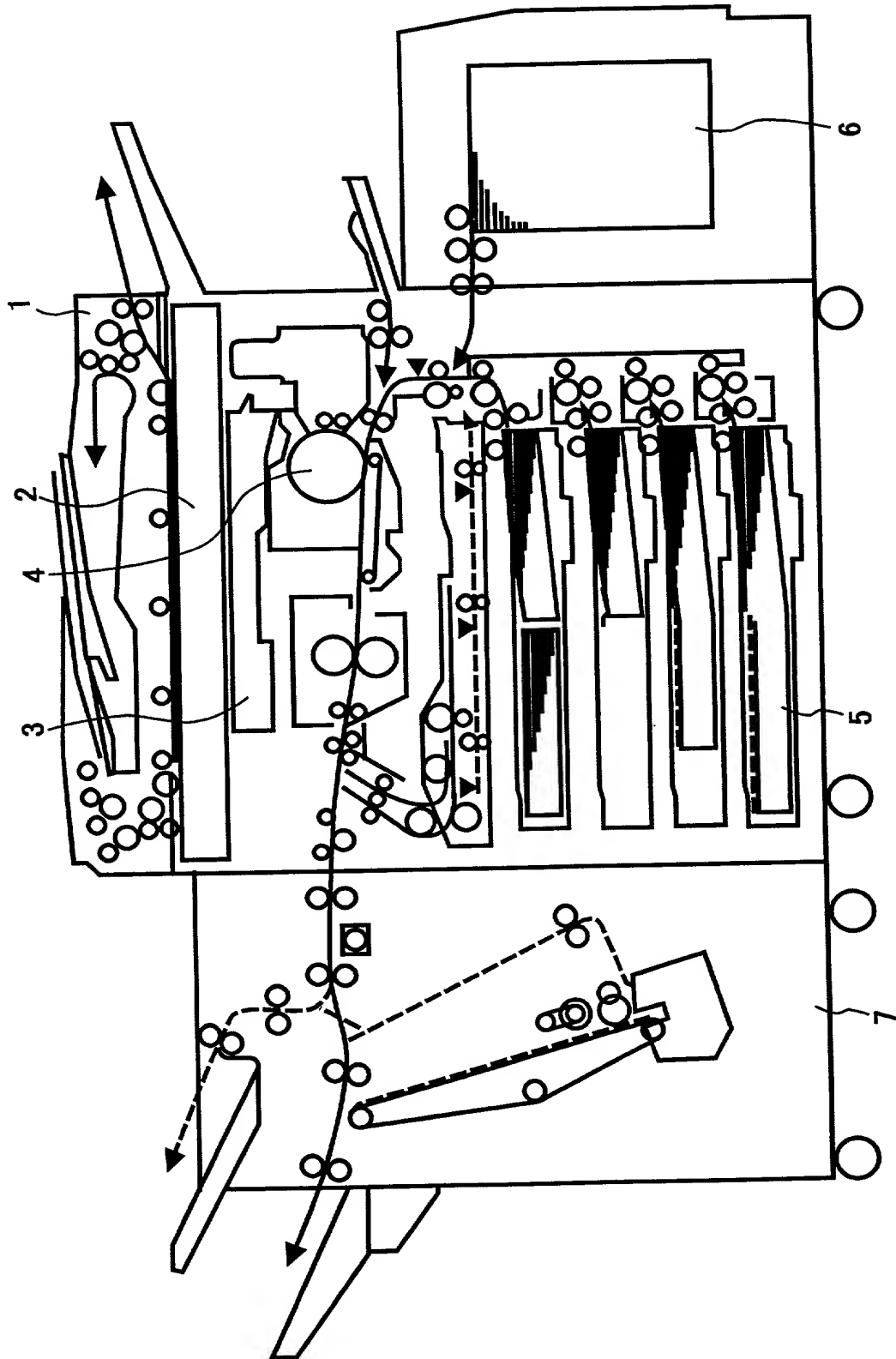
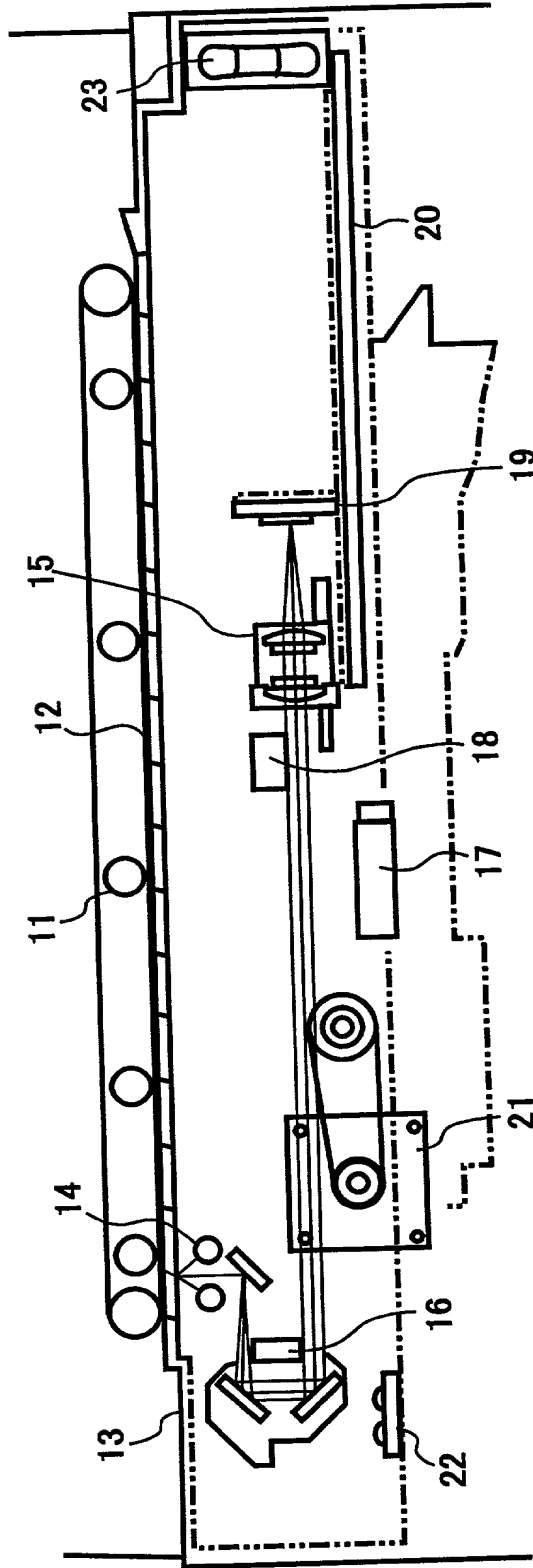


FIG. 2



The diagram illustrates the control system architecture, divided into three main sections:

- MAIN CONTROL BOARD (1):** This board contains a CPU (30), an A/D converter (113), an A/D converter (21), a D/A converter (20), and an A/D converter (19). It is connected to a CPU (10) on the Mother Board via a bus (125).
- MOTHER BOARD (120):** This board contains an MPU (10), a CPU (30), an A/D converter (113), an A/D converter (21), a D/A converter (20), and an A/D converter (19). It is connected to the Main Control Board via a bus (125).
- I/O CONTROL BOARD (118):** This board contains a CPU (10), a CPU (30), an A/D converter (113), an A/D converter (21), a D/A converter (20), and an A/D converter (19). It is connected to the Mother Board via a bus (127).

Additional components and connections include:

- Input/Output Devices:** A keyboard (114) and a printer (104) are connected to the I/O Control Board. A scanner (105) and a sheet feeder (106) are connected to the Mother Board.
- Storage:** A hard disk drive (HDD) (117) is connected to the Main Control Board.
- Control Logic:** A control logic unit (112) is connected to the Main Control Board. A control logic unit (121) is connected to the Mother Board.
- Inter-board Connections:** The Main Control Board, Mother Board, and I/O Control Board are interconnected via buses (125, 127, 128).

FIG. 4

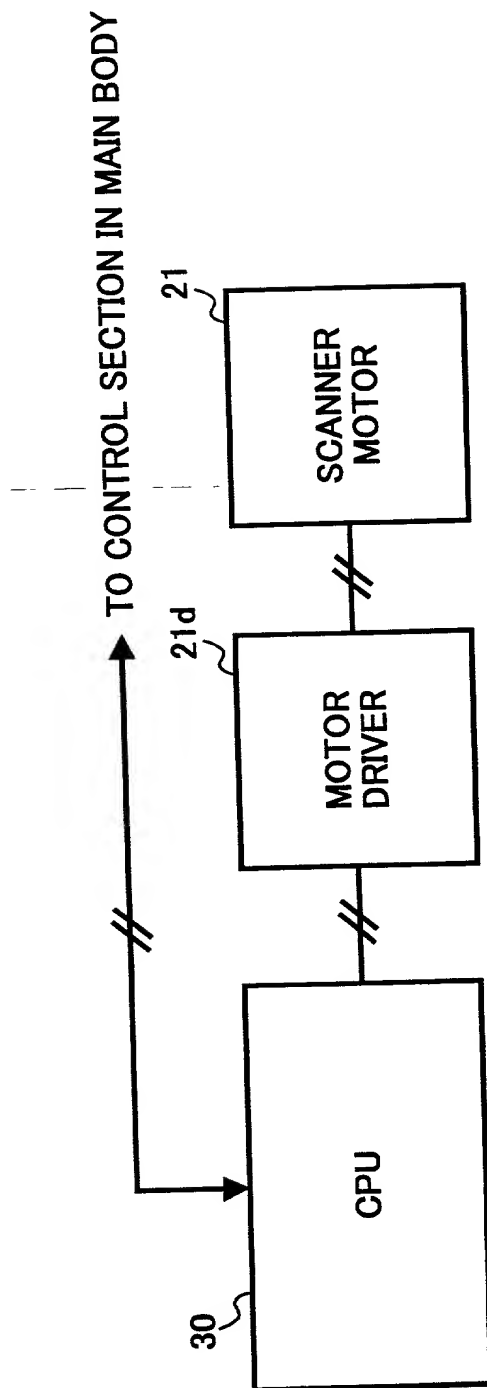
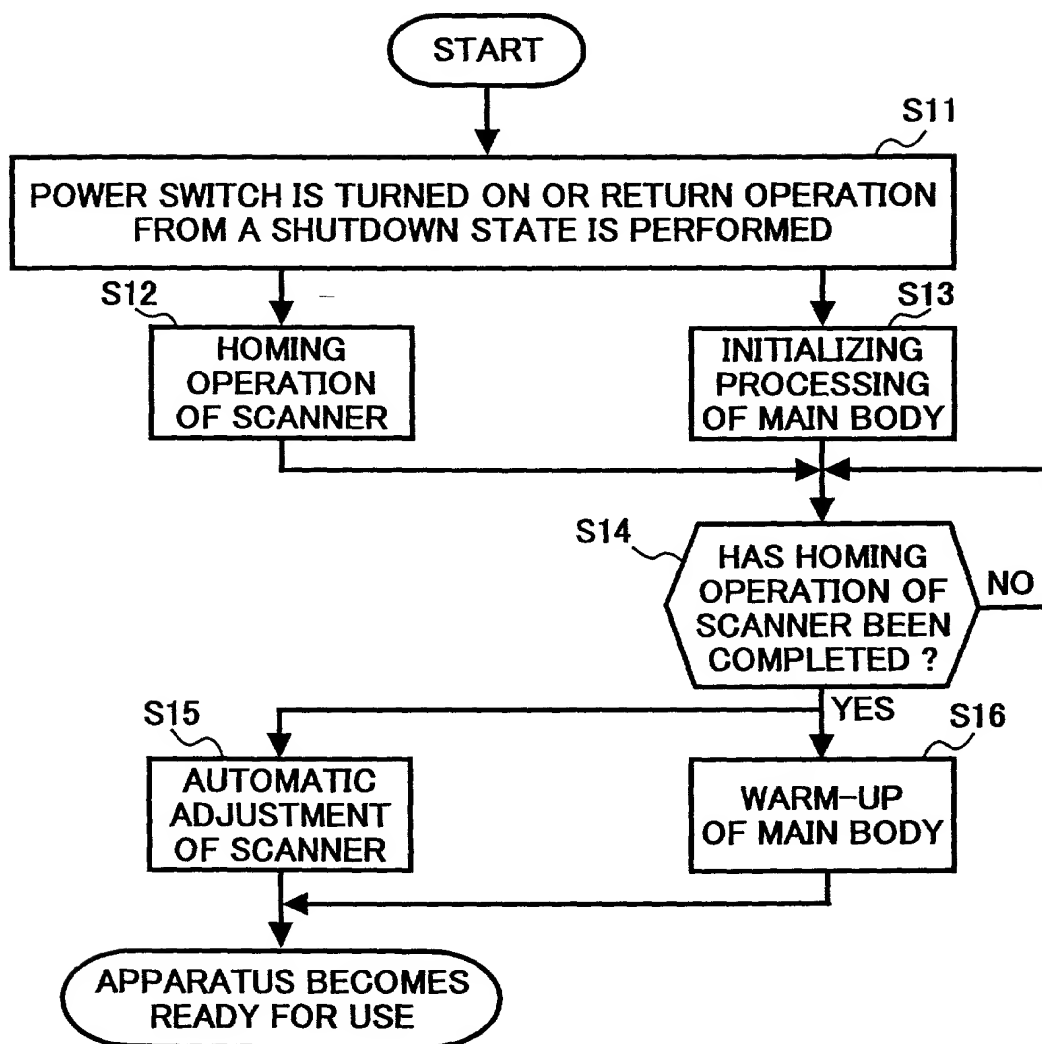


FIG. 5



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FIG. 6

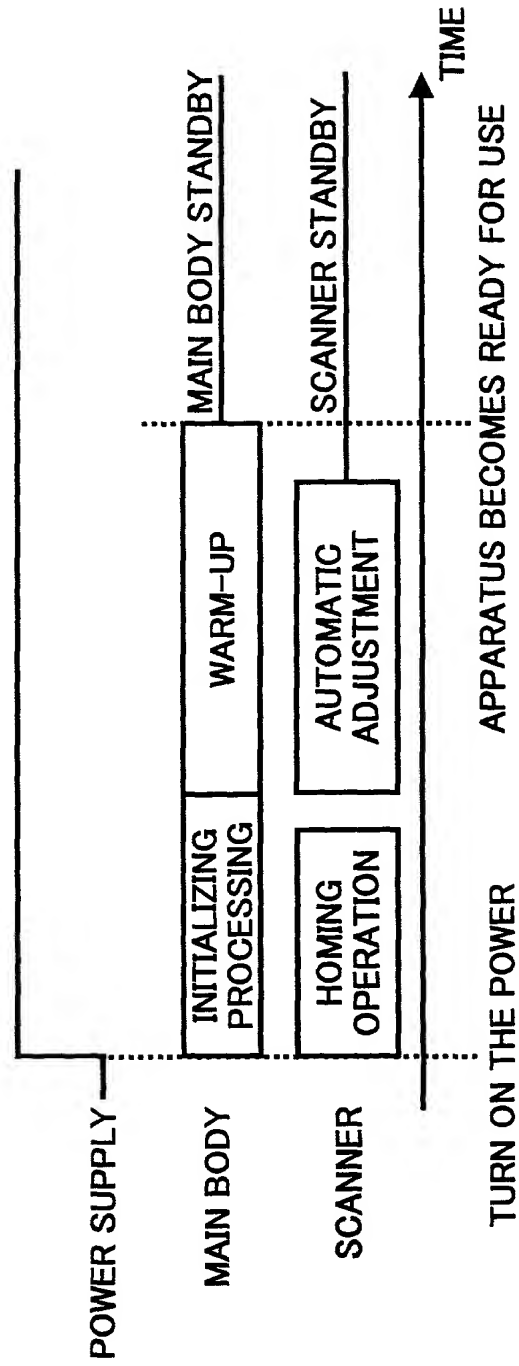


FIG. 7

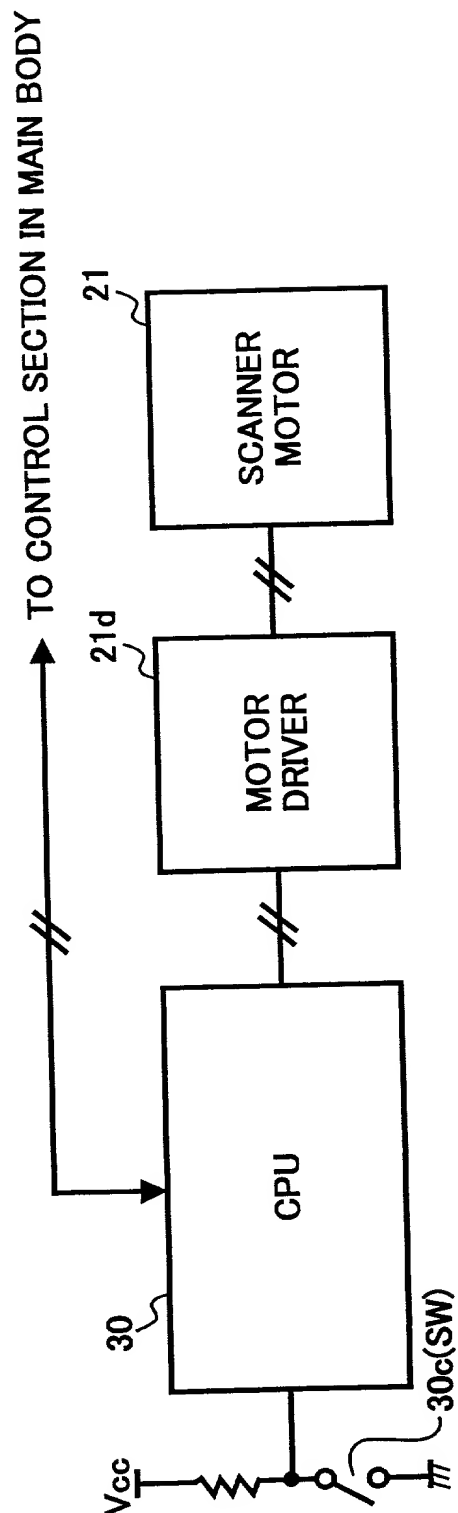


FIG. 8

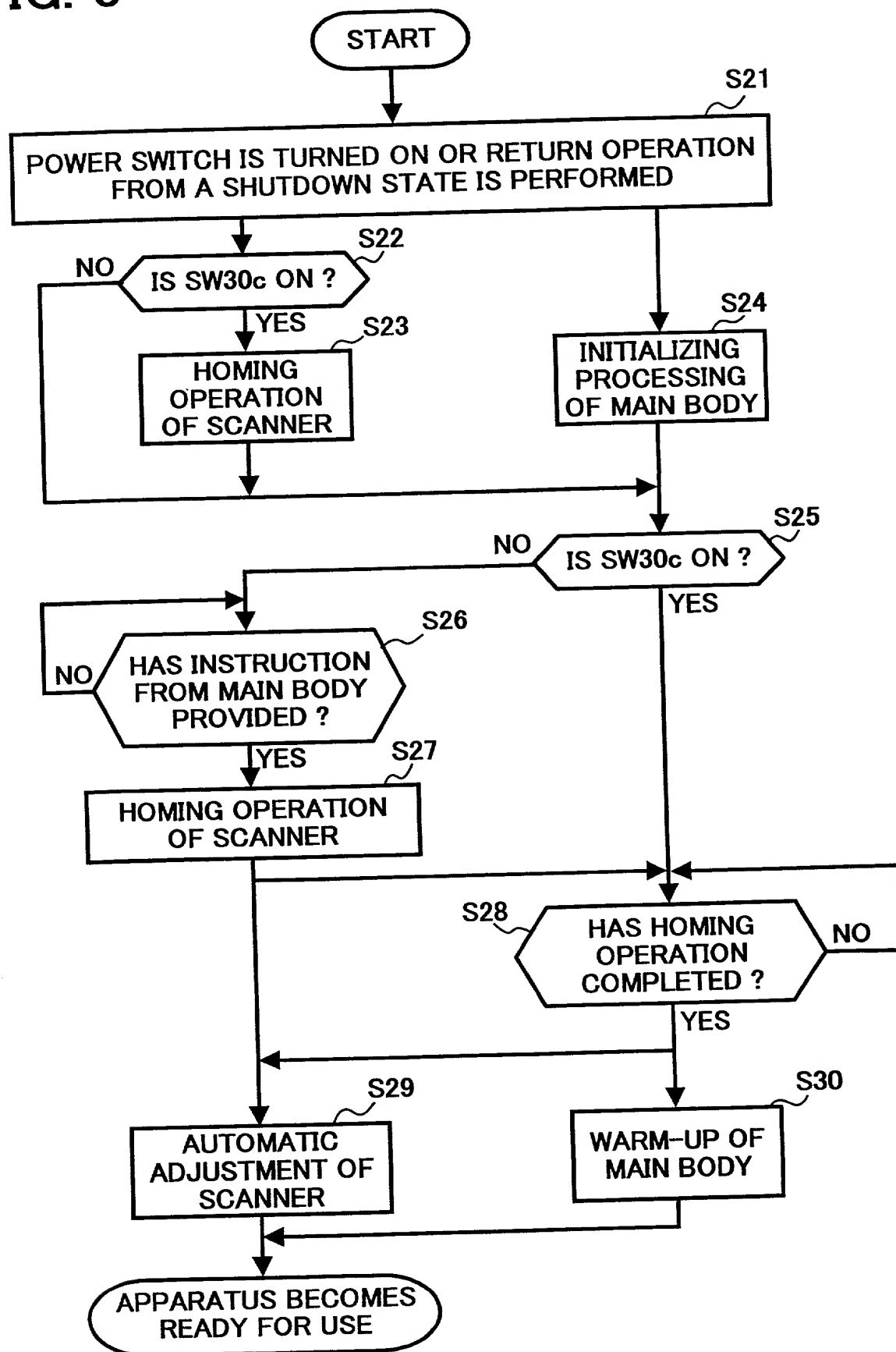




FIG. 9A WHEN SW30c IS ON

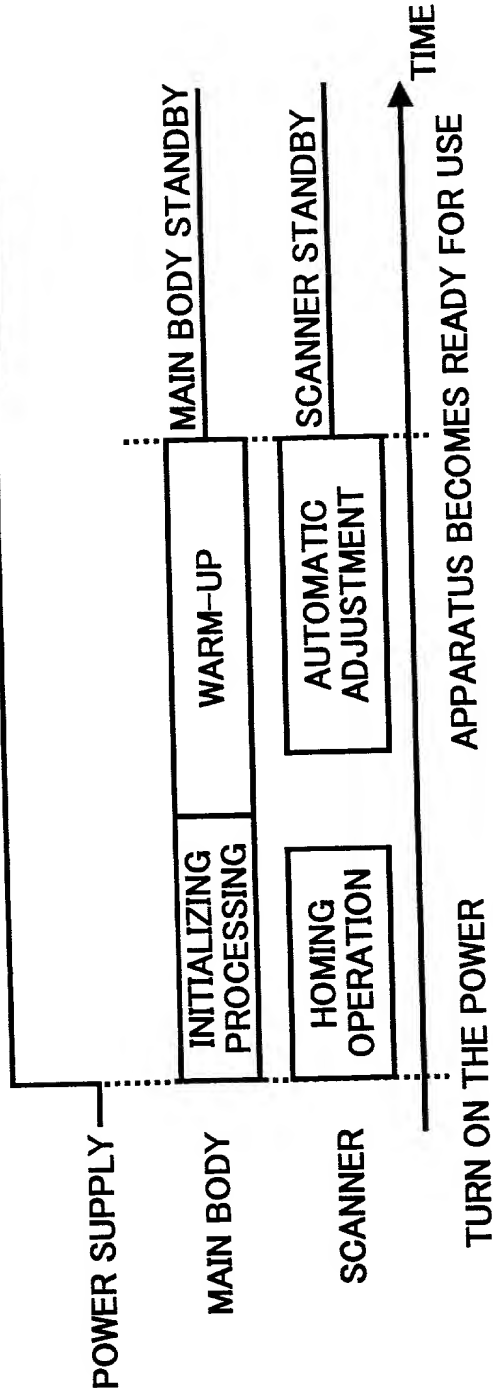


FIG. 9B WHEN SW30c IS OFF

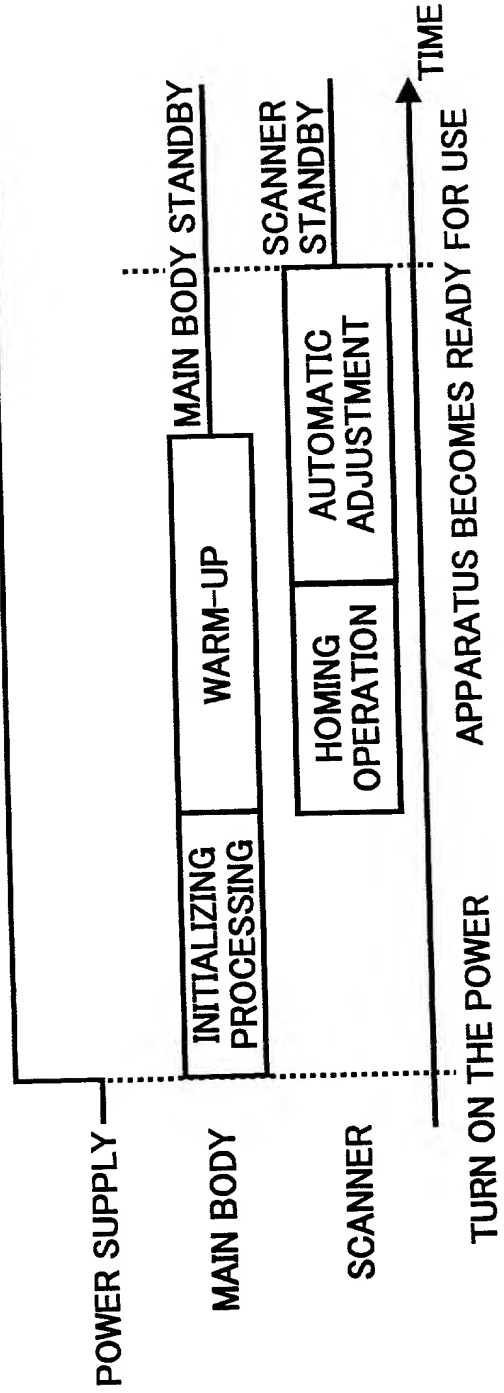


FIG. 10

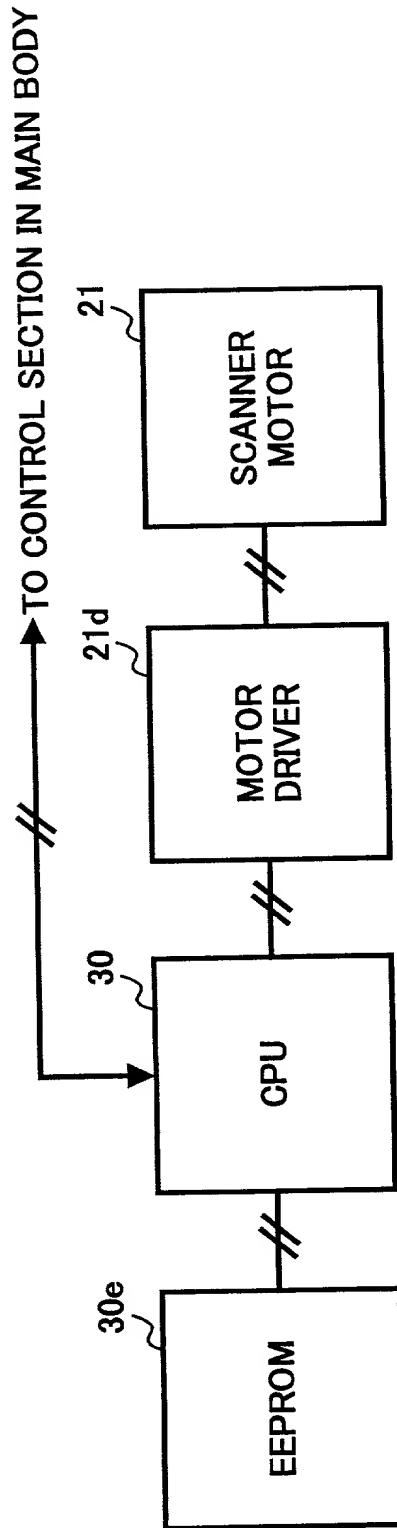
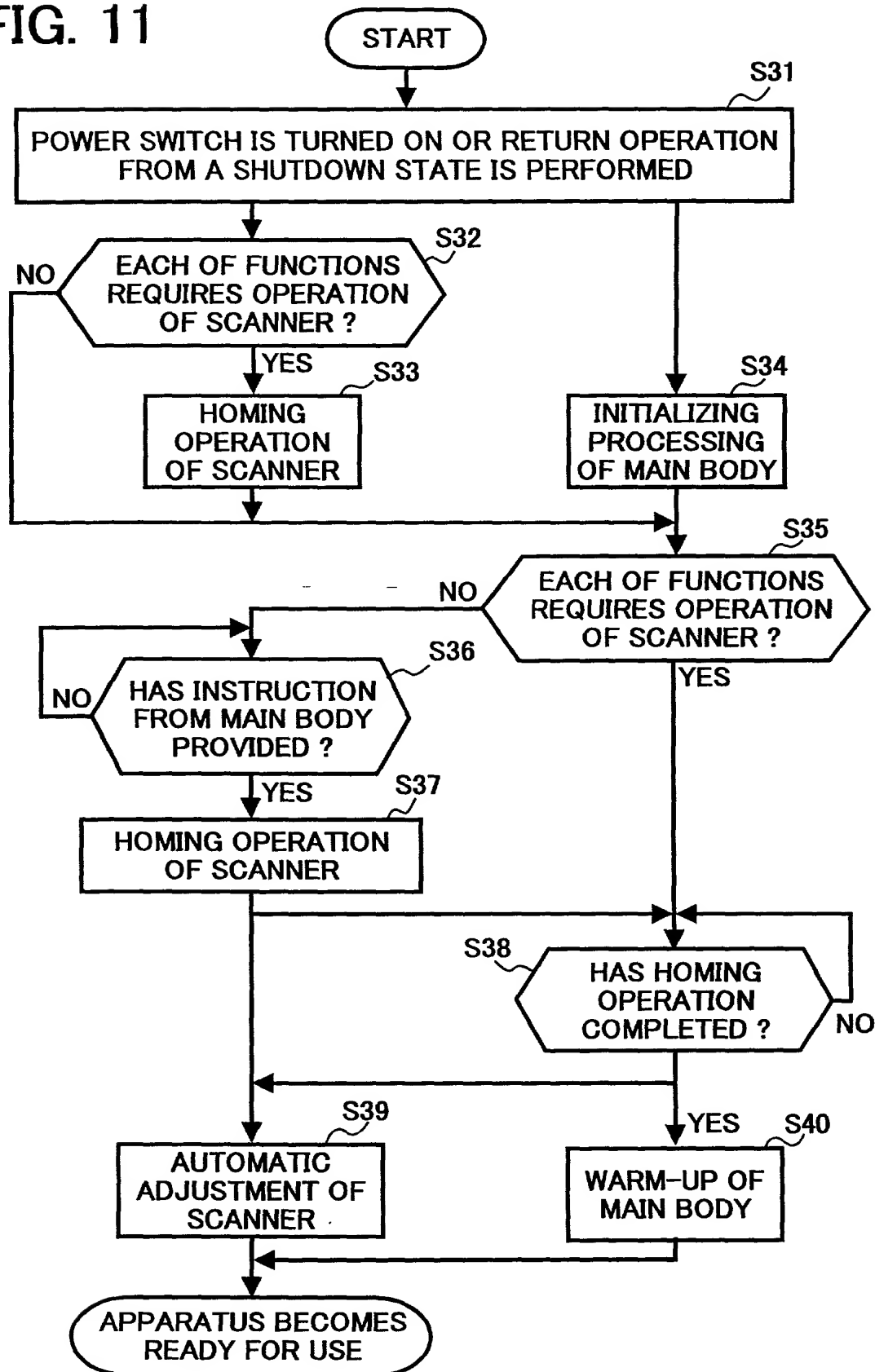


FIG. 11



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FIG. 12A

EACH OF FUNCTIONS REQUIRES OPERATION OF SCANNER

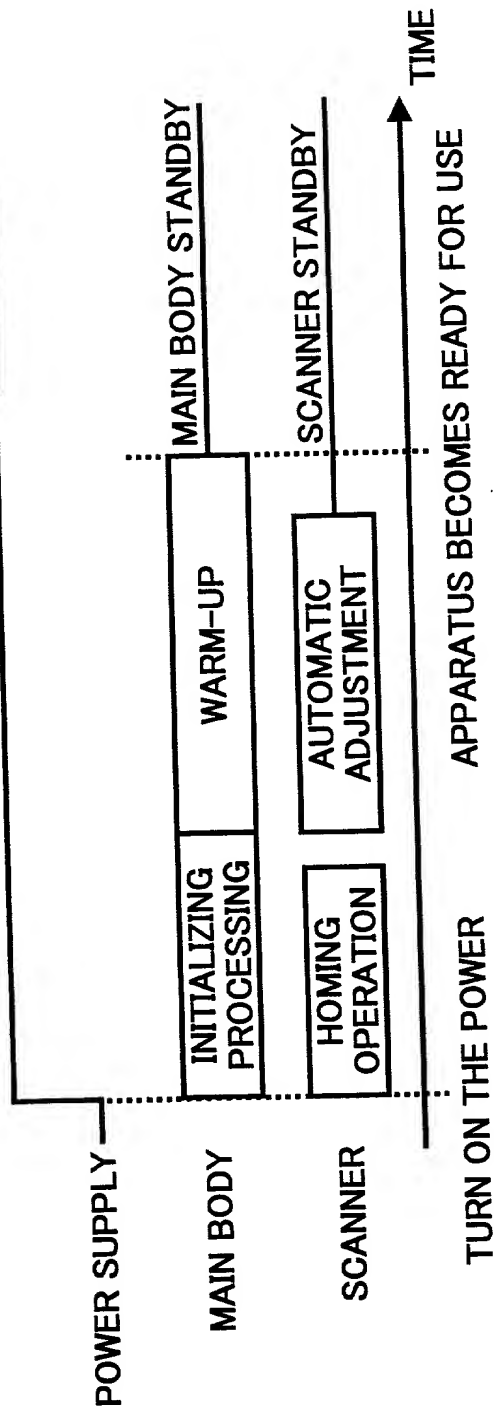


FIG. 12B

AT LEAST ONE OF FUNCTIONS DOES NOT REQUIRE OPERATION OF SCANNER

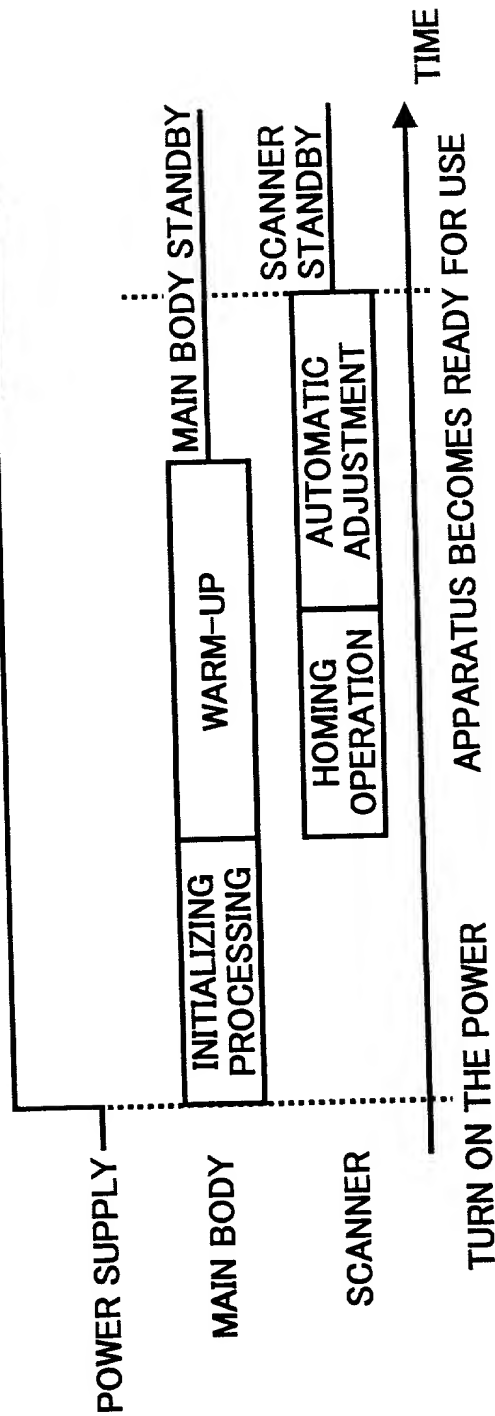
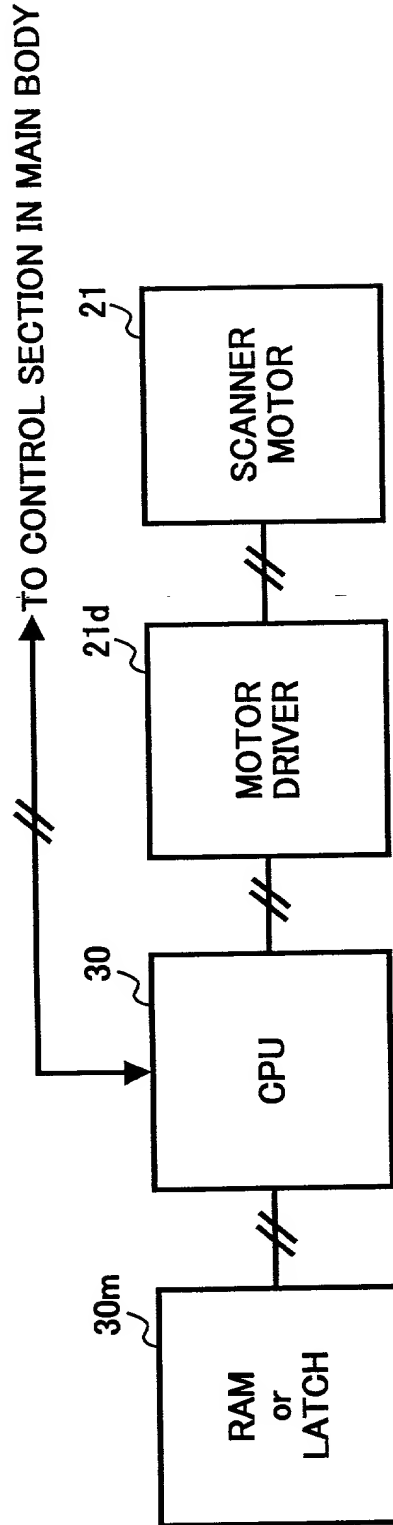
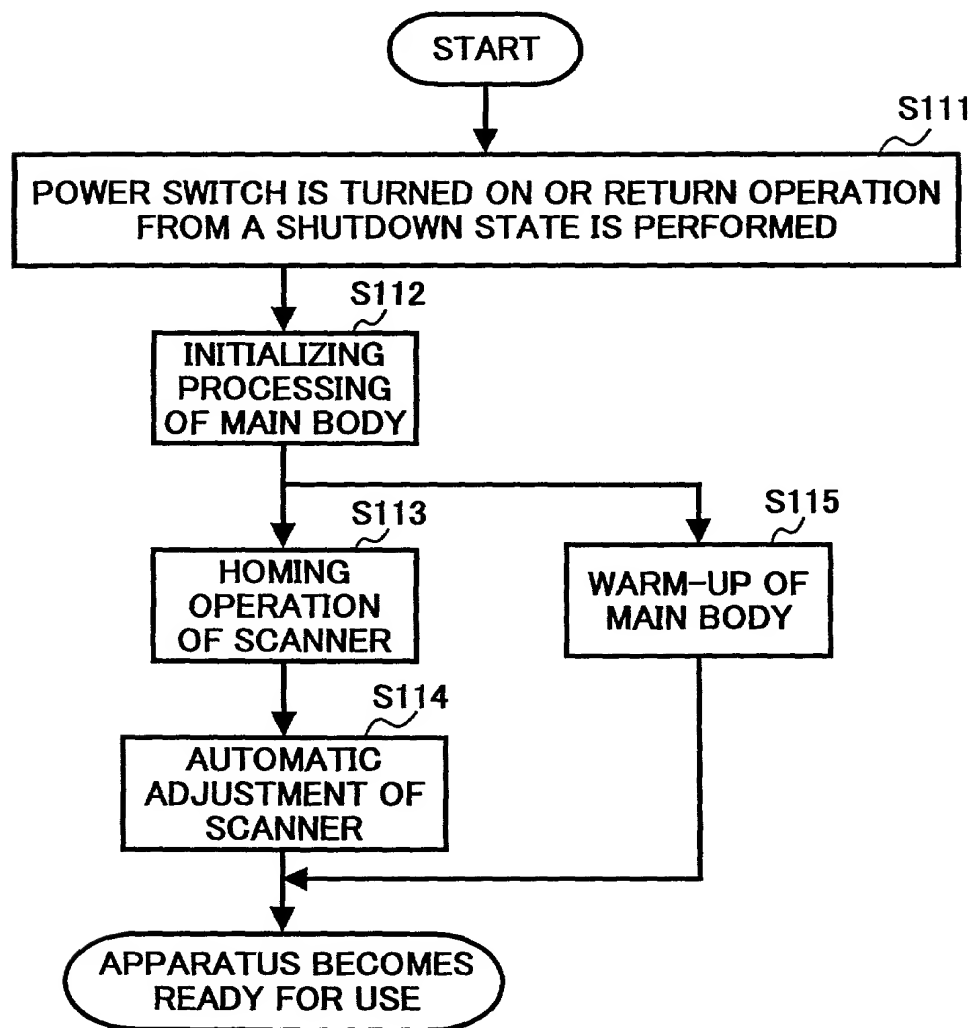


FIG. 13



## FIG. 14

BACKGROUND ART



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FIG. 15A BACKGROUND ART

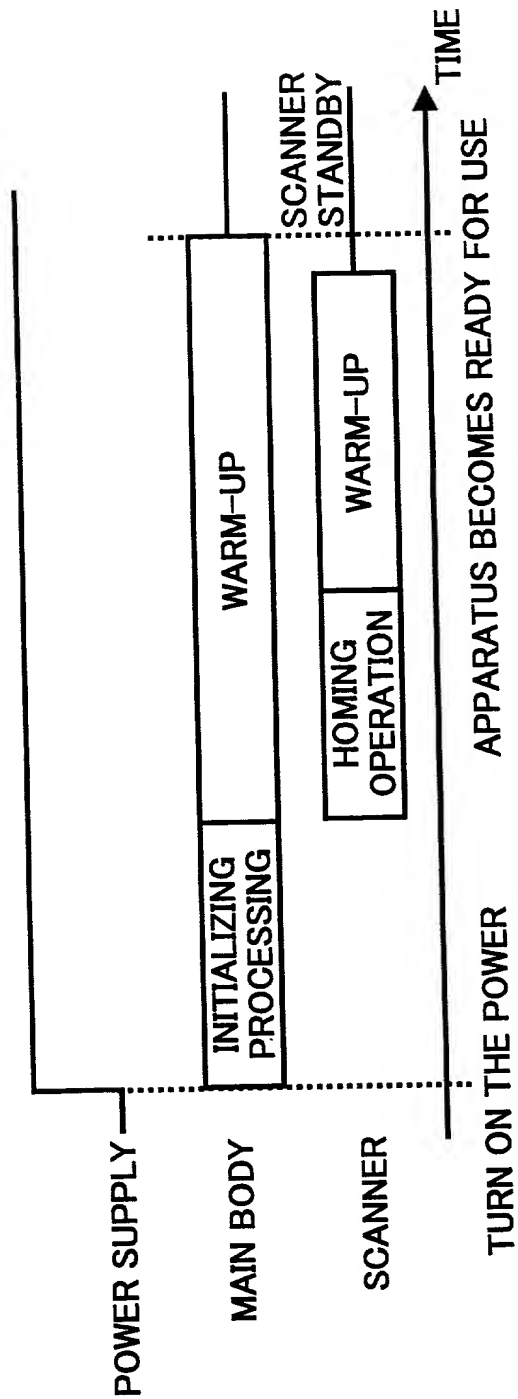


FIG. 15B BACKGROUND ART

